

## REMARKS

Claims 1-53, 55-90, and 92-110 are now pending in the application. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

Applicants would like to thank the Examiner for the courtesy extended during the personal interview conducted on January 23, 2007.

## REJECTION UNDER 35 U.S.C. § 103

Claims 1, 12, 24, 37, 48, 61, 74, 85, and 98 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Dankberg (U.S. Pat. No. 5,596,439) in view of Rabenko et al. (U.S. Pat. No. 6,765,931). This rejection is respectfully traversed.

With respect to claim 1, Dankberg, either singly or in combination with Rabenko, fails to show, teach, or suggest that the composite signal, the replica transmission signal, and the analog baseline correction current are connected together at a common node of the first sub-circuit.

It is a longstanding rule that to establish a *prima facie* case of obviousness of a claimed invention, all of the claim limitations must be taught or suggested by the prior art. *In re Royka*, 180 USPQ 143 (CCPA 1974), see MPEP §2143.03. Furthermore, when evaluating claims for obviousness under 35 U.S.C. §103, all of the limitations must be considered and given weight. *Ex parte Grasselli*, 231 USPQ 393 (Bd. App. 1983), MPEP § 2144.03. Here, the alleged combination fails to disclose the limitation that **the composite signal, the replica transmission signal, and the analog**

**baseline correction current are connected together at a common node of the first sub-circuit.**

As shown in an exemplary embodiment in FIG. 11 of the present application, an active resistive summer (i.e. a first sub-circuit) includes an operational amplifier with a negative input terminal. The negative input terminal receives, as inputs, a composite signal  $V_{txRL}$ , a replica signal  $V_{txR}$ , and a analog baseline correction current  $I_{bl}$ . Each of the composite signal  $V_{txRL}$ , the replica signal  $V_{txR}$ , and the analog baseline correction current  $I_{bl}$  are connected together at the negative input terminal. In other words, the signals are **connected together at a common node of the first sub-circuit**.

As best understood by Applicants, Dankberg fails to disclose this structure. For example, the Examiner relies on FIG. 5 of Dankberg to disclose a composite signal (e.g. an input from a receiver 110 to a canceller 112) and a replica transmission signal (e.g. a source information signal). Applicants respectfully note that neither this figure nor any other figure of Dankberg appears to disclose that the alleged composite and replica signals are **connected together** as claim 1 recites.

The Examiner acknowledges that Dankberg fails to disclose an analog baseline correction current. Instead, the Examiner relies on FIG. 8 of Rabenko to disclose a wander correction module 300. Applicants respectfully note that wander correction module 300 is shown in series with an input signal, and that an analog baseline correction current is not shown. In other words, only the structure of the wander correction module 300 is shown. As such, Rabenko fails to disclose that the analog baseline correction current is output to a common node with a composite signal and a

replica signal, and the combination still appears to be absent of any teaching or suggestion that **the three signals are connected together at a common node.**

Applicants respectfully submit that claim 1, as well as its dependent claims, should be allowable for at least the above reasons. Claims 12, 24, 37, 48, 61, 74, 85, and 98, as well as their corresponding dependent claims, should be allowable for at least similar reasons.

### CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action and the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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